

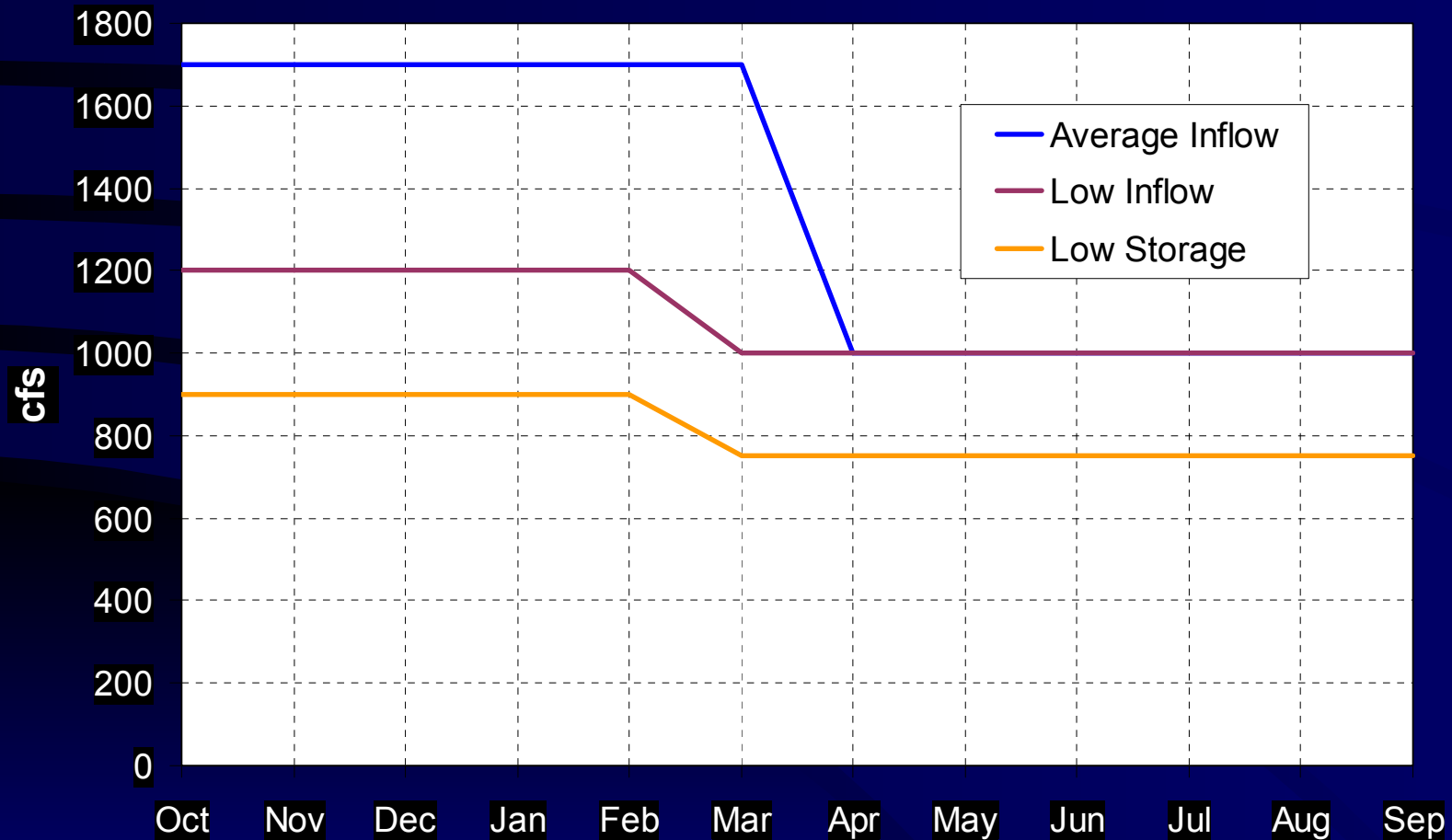
Why is water released from Lake Oroville?

**Curtis Creel
E&O Workgroup
November 22, 2002**

Why is water released from Lake Oroville?

- **Meet local water supply demands**
- **Meet instream requirements**

Instream Flow Requirements (Feather River)



Why is water released from Lake Oroville?

- **Meet local water supply demands**
- **Meet instream requirements**
- **Meet downstream requirements**

Bay-Delta Standards

DRAFT

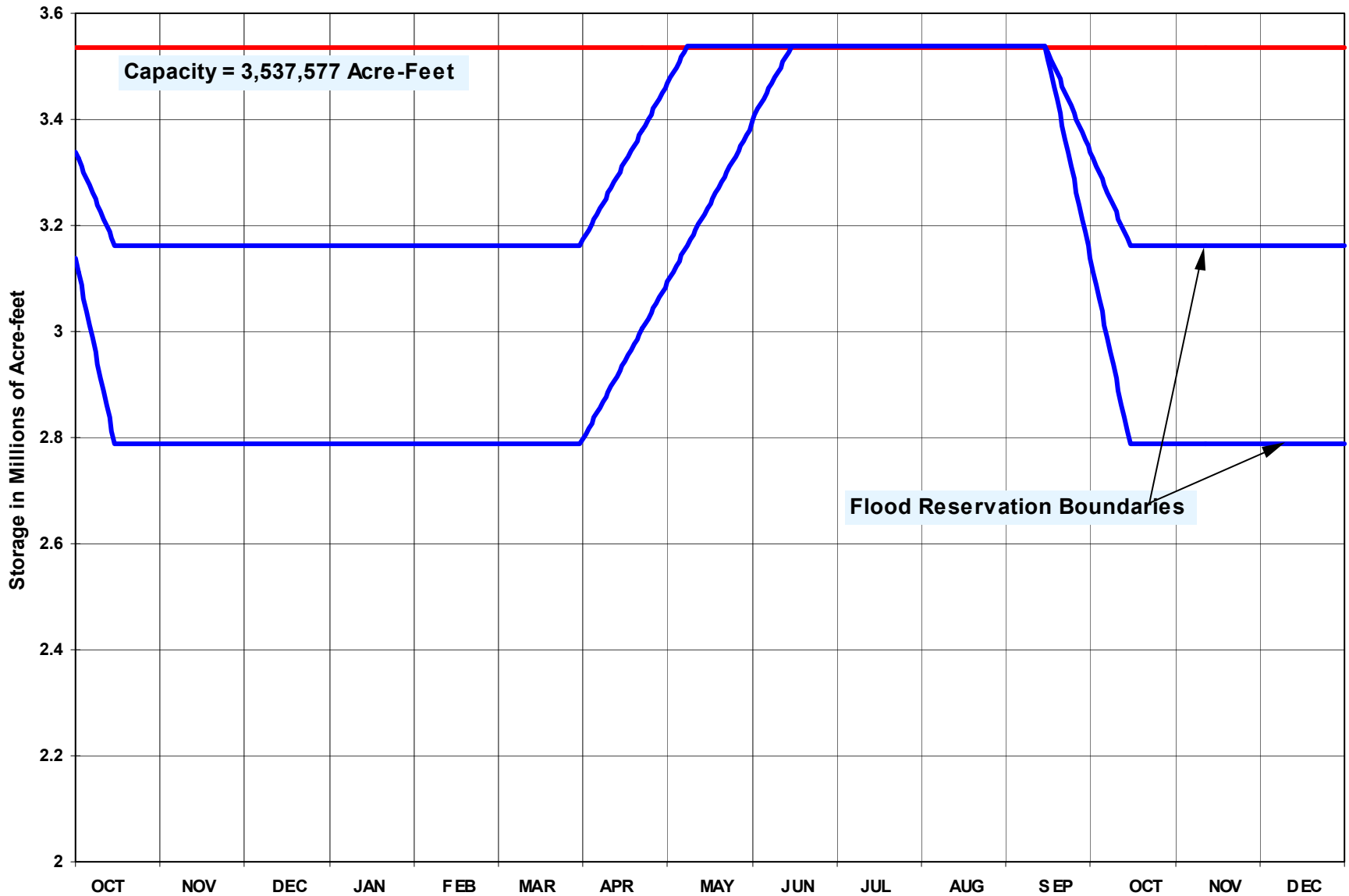
Contained in D-1641

CRITERIA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FLOW/OPERATIONAL												
• Fish and Wildlife												
SWP/CVP Export Limits				1,500cfs	[1]							
Export/Inflow Ratio [2]	65%	35% of Delta Inflow [3]					65% of Delta Inflow					
Minimum Delta Outflow	[4]						3,000 - 8,000 cfs [4]					
Habitat Protection Outflow		7,100 - 29,200 cfs [5]										
Salinity Starting Condition [6]		[6]										
River Flows:												
@ Rio Vista								3,000 - 4,500 cfs [7]				
@ Vernalis - Base		710 - 3,420 cfs [8]				[8]						
- Pulse				[9]					+28TAF			
Delta Cross Channel Gates	[10]	Closed				[11]					Conditional [10]	
WATER QUALITY STANDARDS												
• Municipal and Industrial												
All Export Locations	≤ 250 mg/l Cl											
Contra Costa Canal	150 mg/l Cl for the required number of days [12]											
• Agriculture												
Western/Interior Delta			Max.14-day average EC mmhos/cm [13]									
Southern Delta [14]	1.0 mS			30 day running avg EC 0.7 mS					1.0 mS			
• Fish and Wildlife												
San Joaquin River Salinity [15]			14-day avg; 0.44 EC									
Suisun Marsh Salinity [16]	12.5 EC	8.0 EC	11.0 EC						19.0 EC	[17]	15.5 EC	

Why is water released from Lake Oroville?

- **Meet local water supply demands**
- **Meet instream requirements**
- **Meet downstream requirements**
- **Flood Control**

Lake Oroville Flood Control Reservation



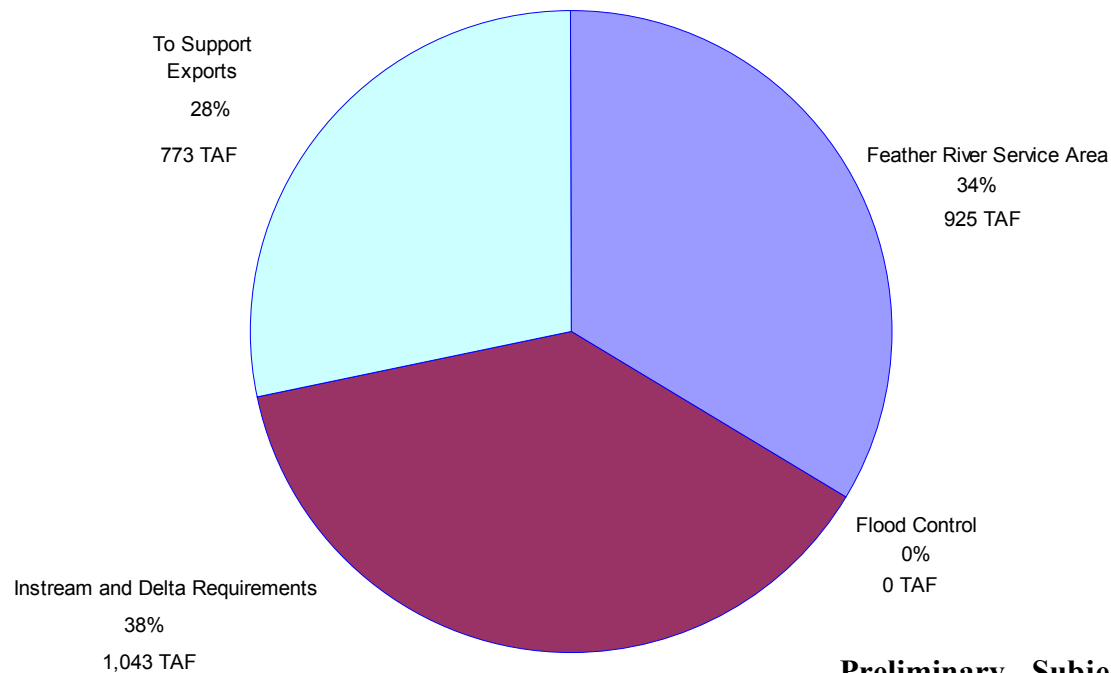
Why is water released from Lake Oroville?

- **Meet local water supply demands**
- **Meet instream requirements**
- **Meet downstream requirements**
- **Flood Control**
- **Support SWP water supply targets**

Why is water released from Lake Oroville?

Primary Reasons for Lake Oroville Releases in Calendar Year 2002

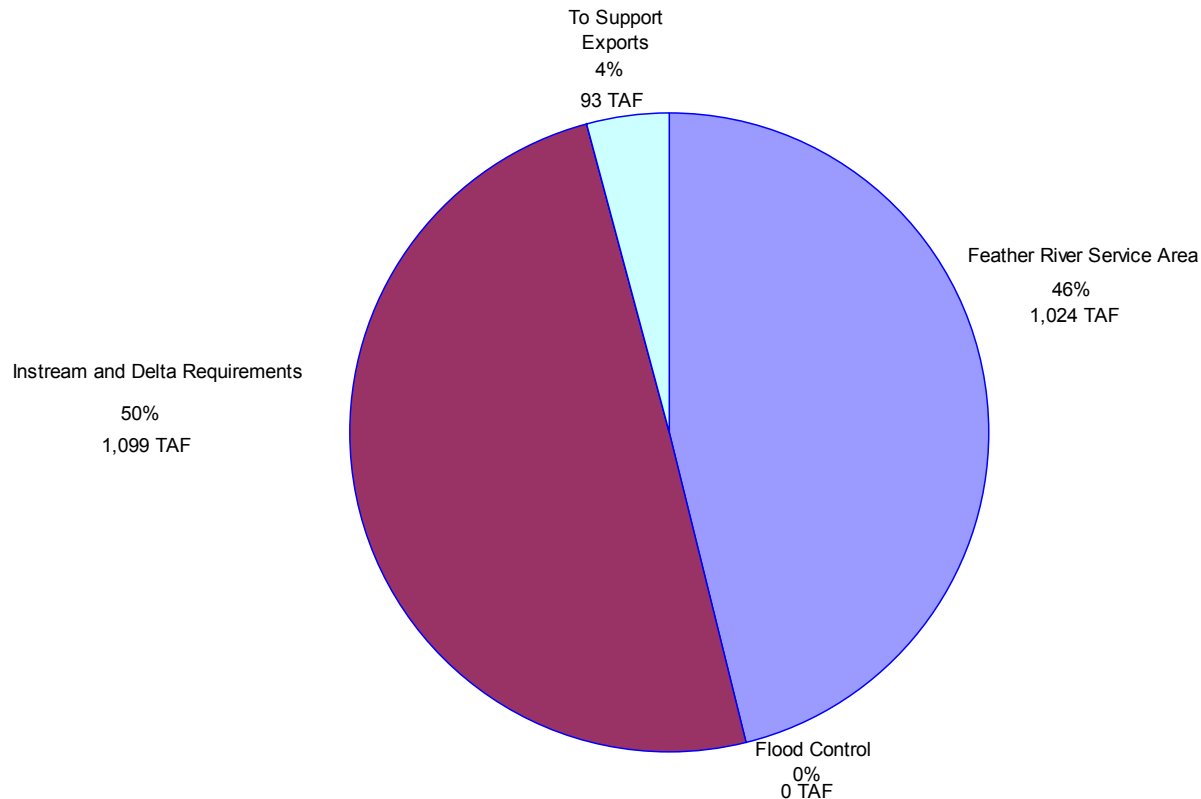
(Actuals through August; September through December assumes 90% exceedence forecast)



Preliminary - Subject to Change

Why is water released from Lake Oroville?

**Primary Reasons for Lake Oroville Releases
in Calendar Year 2001**

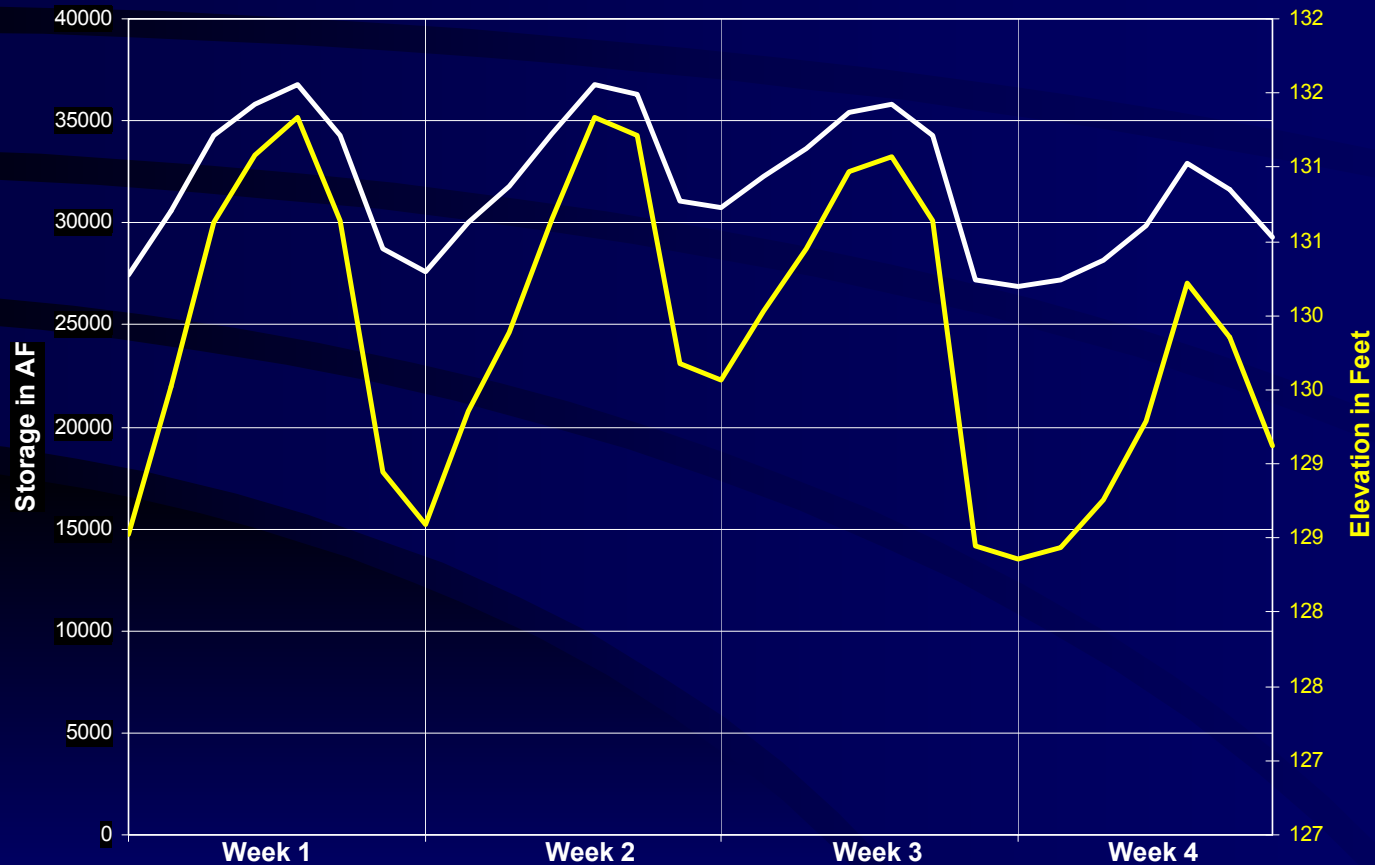


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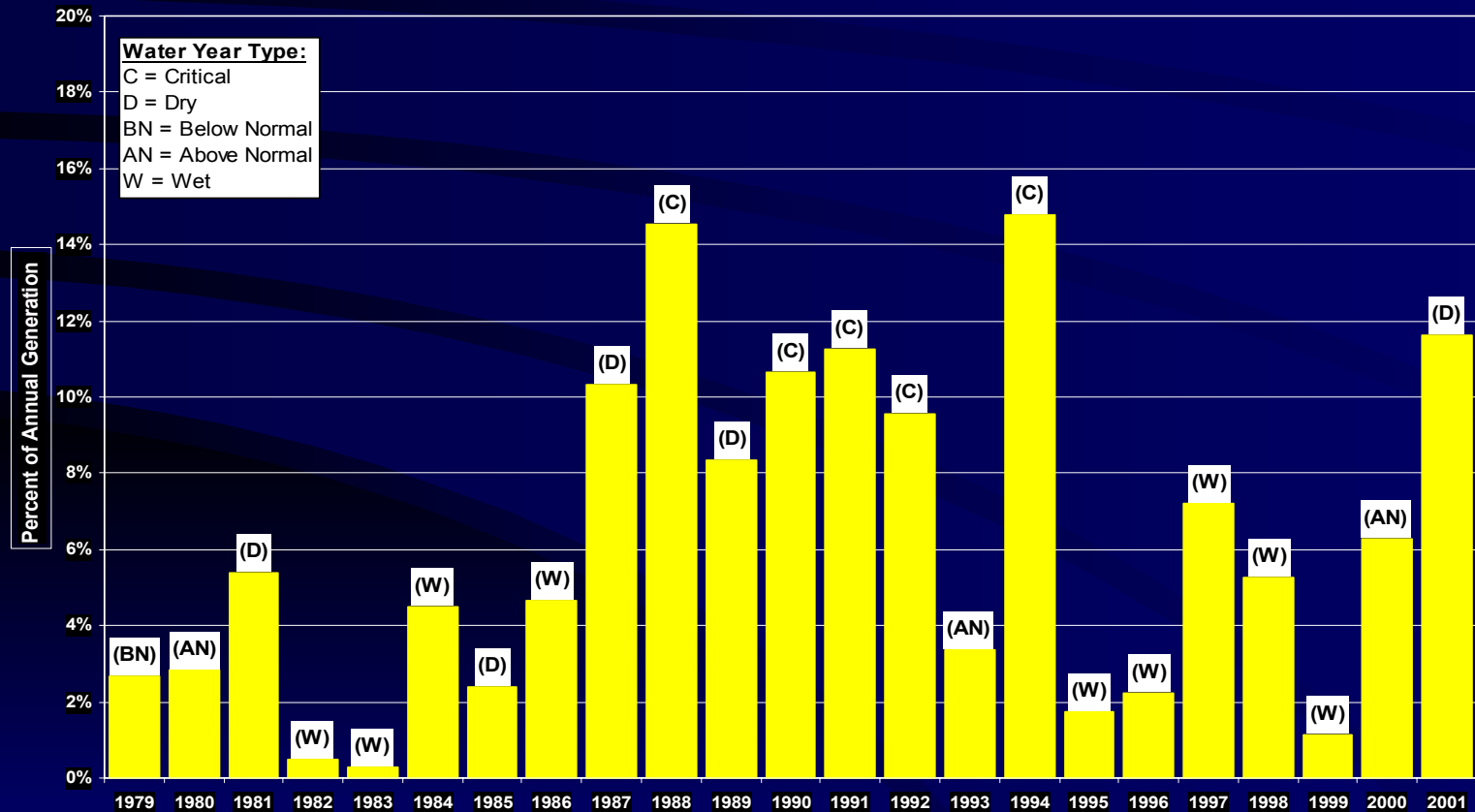
Operational Strategy

Typical Thermalito Afterbay Pattern



Operational Strategy

1979-2001: Hyatt Annual Pumpback Operations



Operational Strategy

**Hyatt Pumpback Operation
1979 - 2001 Average**

